

**INTERNATIONAL SEARCH REPORT**

International Application No  
PCT/EP2005/002262

A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	G02B1/04	C08L31/00	G02B1/10	G02B1/11	B29D11/00
	G02B5/30	G02C7/10	G02C7/12	B29C45/14	B29C45/37

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B B29D G02C B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/090516 A1 (LOSHAK IGOR ET AL) 11 July 2002 (2002-07-11) paragraphs '0012! - '0029! paragraphs '0062! - '0066! claims 1-52 -----	1-4, 14-17
A	US 6 220 703 B1 (EVANS RUSSELL E ET AL) 24 April 2001 (2001-04-24) column 1, line 6 - column 2, line 63 column 7, lines 12-37; example 1 -----	1,22, 31-35
A	US 5 015 523 A (KAWASHIMA ET AL) 14 May 1991 (1991-05-14) column 1, line 23 - column 2, line 36 column 3, line 61 - column 4, line 53 column 5, line 55 - column 9, line 39 claims 1-30 ----- -/-	1,11-20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 977 028 A (GOEPFERT ET AL) 11 December 1990 (1990-12-11) column 2, line 10 - column 3, line 13; example -----	22-30, 36,37
A	US 2002/071091 A1 (DEGAND JEAN-PIERRE ET AL) 13 June 2002 (2002-06-13) paragraphs '0001! - '0025! paragraphs '0042! - '0063! -----	1,11-20
A	US 5 943 104 A (MODDEL ET AL) 24 August 1999 (1999-08-24) column 7, line 29 - column 8, line 62 -----	1-10
A	EP 0 887 667 A (SHARP KABUSHIKI KAISHA) 30 December 1998 (1998-12-30) claims 1-24; figure 3 -----	1,22

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/EP2005/002262

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2002090516	A1	11-07-2002	US 6413641 B1 US 6220703 B1 AU 2002359890 A1 EP 1461377 A2 WO 03058293 A2 US 2004017610 A1 US 2001028435 A1 AU 2913001 A EP 1250622 A1 JP 2003518653 T TW 561099 B WO 0148539 A1 US 2001038438 A1 US 2001028436 A1		02-07-2002 24-04-2001 24-07-2003 29-09-2004 17-07-2003 29-01-2004 11-10-2001 09-07-2001 23-10-2002 10-06-2003 11-11-2003 05-07-2001 08-11-2001 11-10-2001
US 6220703	B1	24-04-2001	AU 2913001 A EP 1250622 A1 JP 2003518653 T TW 561099 B WO 0148539 A1 US 2002090516 A1 US 6413641 B1 US 2001038438 A1 US 2004017610 A1 US 2001028435 A1 US 2001028436 A1		09-07-2001 23-10-2002 10-06-2003 11-11-2003 05-07-2001 11-07-2002 02-07-2002 08-11-2001 29-01-2004 11-10-2001 11-10-2001
US 5015523	A	14-05-1991	JP 1928960 C JP 6042002 B JP 60029702 A DE 3425923 A1 FR 2549968 A1		12-05-1995 01-06-1994 15-02-1985 14-02-1985 01-02-1985
US 4977028	A	11-12-1990	FR 2531235 A1 CA 1225579 A1 DE 3373798 D1 EP 0100705 A1 JP 1939885 C JP 6056441 B JP 59038703 A US 4865668 A		03-02-1984 18-08-1987 29-10-1987 15-02-1984 09-06-1995 27-07-1994 02-03-1984 12-09-1989
US 2002071091	A1	13-06-2002	FR 2781889 A1 AU 5046899 A DE 69917047 D1 DE 69917047 T2 EP 1110107 A1 WO 0008493 A1 JP 2002522798 T		04-02-2000 28-02-2000 09-06-2004 24-03-2005 27-06-2001 17-02-2000 23-07-2002
US 5943104	A	24-08-1999	NONE		
EP 0887667	A	30-12-1998	GB 2326727 A DE 69818915 D1 DE 69818915 T2 EP 0887666 A2 EP 0887692 A2 EP 0887667 A2		30-12-1998 20-11-2003 19-08-2004 30-12-1998 30-12-1998 30-12-1998

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP2005/002262

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0887667	A	GB 2326728 A	30-12-1998
		GB 2326729 A	30-12-1998
		JP 11084413 A	26-03-1999
		JP 3596727 B2	02-12-2004
		JP 11084385 A	26-03-1999
		JP 3635559 B2	06-04-2005
		JP 11084131 A	26-03-1999
		US 6624863 B1	23-09-2003
		US 6055103 A	25-04-2000
		US 2002001128 A1	03-01-2002